United States Patent Office 3,523,053 Patented Aug. 4, 1970

3,523,053

TAPE APPLICATOR DISPENSER

James Zbinden, 1214 5th Ave., Sterling, Ill. 61081, and
Robert E. Dodd, R.R. 1, Rock Falls, Ill. 61071

Filed May 14, 1968, Ser. No. 729,083
Int. Cl. B32b 31/20; B44c 3/02, 7/02
U.S. Cl. 156—523 20 Claims

ABSTRACT OF THE DISCLOSURE

An applicator dispenser for holding and applying adhesive tape supplied from a roll onto an external surface. Tape carrier means rotatably supporting the tape roll in the body and movable toward and away from the dispensing opening is provided with clamping means thereon having a forward edge for contacting the adhesive side of the tape remote from the tape roll and movable between a downward position adjacent the pressure surface and upward position remote therefrom towards the roll. Fixed snubbing post means are provided on the body between the tape roll and the pressure means for supporting the nonadhesive side of the tape remote from the roll when the clamping means is moved into said upward clamping position, with the forward edge thereof forcing the tape against the snubbing post in clamped relation. Cutter means is mounted on the body and is operatively interconnected with the carrier for cutting the tape from the nonadhesive side thereof between the snubbing post and the pressure means upon movement of the carrier to said upward position.

The present invention relates to a new and improved applicator dispenser of the portable type adapted for holding and applying adhesive tape onto the surface of an external object, such as a box, package, shelf, or the like, surface. With the increased usage of various kinds of pressure sensitive tape, it is desirable to provide a new and improved dispenser applicator which is capable of holding an extended length of tape on a roll and, by easy manipulation of the unit, applying any desired length of tape onto an external surface. Many prior devices for this purpose have been extremely complicated and complex and have not been reliable in operation. It is intended in the present inventio nto provide a new and improved applicator dispenser which is not only simple and economical of construction but is foolproof in operation and one which can be produced on a mass production basis at low cost.

It is therefore an object of the present invention to provide a new and improved dispenser applicator for applying adhesive tape supplied from a roll onto an external surface.

Another object of the present invention is the provision of a new and improved tape applicator dispenser of the character described wherein any desired length of tape can be applied to an external object and automatically severed at the desired point.

Another object of the present invention is the provision of a new and improved tape applicator dispenser of the character described wherein after each application and severance of the tape a short leader portion of tape is automatically extended outwardly of the dispenser body in a position ready for the next application.

Another object of the present invention is the provision of a new and improved applicator dispenser of the character described in which the tape is severed from the nonadhesive side, thereby precluding the possibility of the tape sticking to the cutting means.

Another object of the present invention is the provision of a new and improved tape applicator dispenser employing improved tape shearing or severing means which is automatically actuated and is entirely housed within the dispenser body so that the cutting edge is not exposed.

Another object of the present invention is the provision of a new and improved tape applicator dispenser which requires a minimum number of component parts, which components can be formed of molded plastic material on a mass production basis.

Another object of the present invention is the provision of a new and improved tape applicator dispenser which is light in weight, small in size, and easily manipulated to dispense and apply tape.

Another object of the present invention is the provision of a new and improved tape dispenser of the character described which is functionally reliable and not subject to jamming or hangup of the tape in the mechanism.

Still another object of the present invention is the provision of a new and improved tape dispenser wherein a leader portion of the tape extended from the roll is automatically positively clamped while it is severed remote from the supply roll within the body of the dispenser.

Another object of the present invention is the provision of a new and improved tape dispenser of the character described wherein new and improved means are provided for automatically extending a short leader portion of the tape into position ready for the next tape application after each application and cutoff is completed.

Another object of the present invention is the provision of a new and improved tape applicator dispenser wherein a short leader portion of tape is automatically extended outwardly of the body into a position beneath a pressure pad on the body ready for the next application of tape by movement of the pressure pad along the object surface on which the tape is to be applied.

Still another object of the present invention is a tape dispenser applicator having new and improved means for guiding the tape from the tape roll onto an external object without touching the adhesive side of the tape.

Still another object of the present invention is the provision of a new and improved tape dispenser applicator, which can be easily held and operated for the application of tape in one hand.

Still another object of the present invention is the provision of a tape dispenser applicator employing new and improved means for automatically clamping, cutting off, and projecting a portion of the tape into position ready for the next application by a simple unidirectional movement of a finger of the user.

These and other objects of the present invention are accomplished in an illustrated embodiment thereof comprising a tape dispenser having a body with a sidewall and a peripheral edge wall transversely thereof defining an opening on the bottom side of the body for dispensing the tape. A pressure pad is formed along a forward edge of the opening for use in forcing the tape against an external object upon bodily movement of the dispenser body rearwardly. Carrier means rotatively supporting a roll of tape in the body is mounted on the sidewall for movement toward and away from the dispenser opening, and the carrier includes a clamping finger having a forward edge surface adapted to move into contact against the adhesive side of the tape remote from the tape roll during cutoff of the tape at the end of an application. The clamping finger is movable with the carrier between a downward or released position closely adjacent the pressure pad and an upward retracted position remote therefrom toward the roll. A fixed snubbing post is formed on the body between the tape roll and the pressure pad for engaging the nonadhesive side of the tape remote from the roll and providing a clamping surface against which the tape is forced by the clamping finger when it is moved to